

SEQUENCE LISTING

<110> Ruoslahti, Erkki
Pasqualini, Renata
Wadih, Arap
Bredesen, Dale E.
Ellerby, H. Michael

<120> Chimeric Prostate-Homing Peptides With
Pro-Apoptotic Activity

<130> P-LJ 3844

<140> US 09/489,582

<141> 2000-01-21

<160> 235

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 1

Cys Asp Cys Arg Gly Asp Cys Phe Cys
1 5

<210> 2

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 2

Cys Gly Arg Glu Cys Pro Arg Leu Cys Gln Ser Ser Cys
1 5 10

<210> 3

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

09765086-011701

<400> 3
Cys Asn Gly Arg Cys Val Ser Gly Cys Ala Gly Arg Cys
1 5 10

<210> 4
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 4
Cys Leu Ser Gly Ser Leu Ser Cys
1 5

<210> 5
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 5
Cys Gly Ser Leu Val Arg Cys
1 5

<210> 6
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 6
Asn Gly Arg Ala His Ala
1 5

<210> 7
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 7
Cys Val Leu Asn Gly Arg Met Glu Cys
1 5

09765036-011701

<210> 8
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 8
Cys Asn Gly Arg Cys
1 5

<210> 9

<220>
<223> synthetic peptide

<400> 9
000

<210> 10

<220>
<223> synthetic peptide

<400> 10
000

<210> 11

<220>
<223> synthetic peptide

<400> 11
000

<210> 12
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<221> VARIANT
<222> (1)...(13)
<223> Xaa = Any Amino Acid

<400> 12
Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys
1 5 10

<210> 13

09765086.011701

<211> \9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<221> VARIANT
<222> (1)...(9)
<223> Xaa = Any Amino Acid

<400> 13
Cys Xaa Xaa Xaa Asn Gly Arg Xaa Xaa
1 5

<210> 14
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<221> VARIANT
<222> (1)...(9)
<223> Xaa = Any Amino Acid

<400> 14
Cys Xaa Xaa Cys Asn Gly Arg Cys Xaa
1 5

<210> 15
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 15
Cys Asn Lys Thr Asp Gly Asp Glu Gly Val Thr Cys
1 5 10

<210> 16
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 16
Ala Cys Asp Cys Arg Gly Asp Cys Phe Cys Gly

09765086-011701

1 5 10

<210> 17
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 17
Gly Arg Gly Glu Ser Pro
1 5

<210> 18
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 18
Trp Gly Thr Gly Leu Cys
1 5

<210> 19
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 19
Gly Ala Cys Val Phe Ser Ile Ala His Glu Cys Gly Ala
1 5 10

<210> 20
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 20
Cys Gly Glu Ala Cys Gly Gly Gln Cys Ala Leu Pro Cys
1 5 10

<210> 21
<211> 9
<212> PRT

09765086-011701

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 21

Ile Trp Ser Gly Tyr Gly Val Tyr Trp
1 5

<210> 22

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 22

Pro Ser Cys Ala Tyr Met Cys Ile Thr
1 5

<210> 23

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 23

Trp Glu Ser Leu Tyr Phe Pro Arg Glu
1 5

<210> 24

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 24

Ser Lys Val Leu Tyr Tyr Asn Trp Glu
1 5

<210> 25

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

09765086-011701

<400> 25
Cys Gly Leu Met Cys Gln Gly Ala Cys Phe Asp Val Cys
1 5 10

<210> 26
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 26
Cys Glu Arg Ala Cys Arg Asn Leu Cys Arg Glu Gly Cys
1 5 10

<210> 27
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 27
Cys Pro Arg Gly Cys Leu Ala Val Cys Val Ser Gln Cys
1 5 10

<210> 28
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 28
Cys Lys Val Cys Asn Gly Arg Cys Cys Gly
1 5 10

<210> 29
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 29
Cys Glu Met Cys Asn Gly Arg Cys Met Gly
1 5 10

<210> 30

09765026-011701

<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 30
Cys Pro Leu Cys Asn Gly Arg Cys Ala Leu
1 5 10

<210> 31
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 31
Cys Pro Thr Cys Asn Gly Arg Cys Val Arg
1 5 10

<210> 32
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 32
Cys Gly Val Cys Asn Gly Arg Cys Gly Leu
1 5 10

<210> 33
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 33
Cys Glu Gln Cys Asn Gly Arg Cys Gly Gln
1 5 10

<210> 34
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

09765086-01701

<223> synthetic peptide

<400> 34

Cys Arg Asn Cys Asn Gly Arg Cys Glu Gly
1 5 10

<210> 35

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 35

Cys Val Leu Cys Asn Gly Arg Cys Trp Ser
1 5 10

<210> 36

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 36

Cys Val Thr Cys Asn Gly Arg Cys Arg Val
1 5 10

<210> 37

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 37

Cys Thr Glu Cys Asn Gly Arg Cys Gln Leu
1 5 10

<210> 38

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 38

Cys Arg Thr Cys Asn Gly Arg Cys Leu Glu
1 5 10

09765086-011701

<210> 39
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 39
Cys Glu Thr Cys Asn Gly Arg Cys Val Gly
1 5 10

<210> 40
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 40
Cys Ala Val Cys Asn Gly Arg Cys Gly Phe
1 5 10

<210> 41
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 41
Cys Arg Asp Leu Asn Gly Arg Lys Val Met
1 5 10

<210> 42
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 42
Cys Ser Cys Cys Asn Gly Arg Cys Gly Asp
1 5 10

<210> 43
<211> 10
<212> PRT
<213> Artificial Sequence

09765086-011701

<220>

<223> synthetic peptide

<400> 43

Cys Trp Gly Cys Asn Gly Arg Cys Arg Met
1 5 10

<210> 44

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 44

Cys Pro Leu Cys Asn Gly Arg Cys Ala Arg
1 5 10

<210> 45

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 45

Cys Lys Ser Cys Asn Gly Arg Cys Leu Ala
1 5 10

<210> 46

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 46

Cys Val Pro Cys Asn Gly Arg Cys His Glu
1 5 10

<210> 47

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 47

09765086-011701

Cys Gln Ser Cys Asn Gly Arg Cys Val Arg
1 5 10

<210> 48
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 48
Cys Arg Thr Cys Asn Gly Arg Cys Gln Val
1 5 10

<210> 49
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 49
Cys Val Gln Cys Asn Gly Arg Cys Ala Leu
1 5 10

<210> 50
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 50
Cys Arg Cys Cys Asn Gly Arg Cys Ser
1 5

<210> 51
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 51
Cys Ala Ser Asn Asn Gly Arg Val Val Leu
1 5 10

<210> 52
<211> 10

09765086.01.17.01

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 52
Cys Gly Arg Cys Asn Gly Arg Cys Leu Leu
1 5 10

<210> 53
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 53
Cys Trp Leu Cys Asn Gly Arg Cys Gly Arg
1 5 10

<210> 54
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 54
Cys Ser Lys Cys Asn Gly Arg Cys Gly His
1 5 10

<210> 55
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 55
Cys Val Trp Cys Asn Gly Arg Cys Gly Leu
1 5 10

<210> 56
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

09765036-011701

<400> 56
Cys Ile Arg Cys Asn Gly Arg Cys Ser Val
1 5 10

<210> 57
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 57
Cys Gly Glu Cys Asn Gly Arg Cys Val Glu
1 5 10

<210> 58
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 58
Cys Glu Gly Val Asn Gly Arg Arg Leu Arg
1 5 10

<210> 59
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 59
Cys Leu Ser Cys Asn Gly Arg Cys Pro Ser
1 5 10

<210> 60
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 60
Cys Glu Val Cys Asn Gly Arg Cys Ala Leu
1 5 10

09765086.011701

<210> 61
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 61
Gly Arg Ser Gln Met Gln Ile
1 5

<210> 62
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 62
His His Thr Arg Phe Val Ser
1 5

<210> 63
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 63
Ser Lys Gly Leu Arg His Arg
1 5

<210> 64
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 64
Val Ala Ser Val Ser Val Ala
1 5

<210> 65
<211> 7
<212> PRT
<213> Artificial Sequence

09755086.011701

<220>

<223> synthetic peptide

<400> 65

Trp Arg Val Leu Ala Ala Phe
1 5

<210> 66

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 66

Lys Met Gly Pro Lys Val Trp
1 5

<210> 67

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 67

Ile Phe Ser Gly Ser Arg Glu
1 5

<210> 68

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 68

Ser Pro Gly Ser Trp Thr Trp
1 5

<210> 69

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 69

Asn Pro Arg Trp Phe Trp Asp

05763036 011701

1

5

<210> 70
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 70
Gly Arg Trp Tyr Lys Trp Ala
1 5

<210> 71
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 71
Ile Lys Ala Arg Ala Ser Pro
1 5

<210> 72
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 72
Ser Gly Trp Cys Tyr Arg Cys
1 5

<210> 73
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 73
Ala Leu Val Gly Leu Met Arg
1 5

<210> 74
<211> 7
<212> PRT

03765086-011704

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 74

Leu Trp Ala Glu Met Thr Gly
1 5

<210> 75

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 75

Cys Trp Ser Gly Val Asp Cys
1 5

<210> 76

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 76

Asp Thr Leu Arg Leu Arg Ile
1 5

<210> 77

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 77

Ser Lys Ser Ser Gly Val Ser
1 5

<210> 78

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

09765086.011701

<400> 78
Ile Val Ala Asp Tyr Gln Arg
1 5

<210> 79
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 79
Val Trp Arg Thr Gly His Leu
1 5

<210> 80
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 80
Val Val Asp Arg Phe Pro Asp
1 5

<210> 81
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 81
Leu Ser Met Phe Thr Arg Pro
1 5

<210> 82
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 82
Gly Leu Pro Val Lys Trp Ser
1 5

<210> 83

09765086.01.1701

<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 83
Ile Met Tyr Pro Gly Trp Leu
1 5

<210> 84
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 84
Cys Val Met Val Arg Asp Gly Asp Cys
1 5

<210> 85
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 85
Cys Val Arg Ile Arg Pro Cys
1 5

<210> 86
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 86
Cys Gln Leu Ala Ala Val Cys
1 5

<210> 87
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

09765086.01.1701

<223> synthetic peptide

<400> 87

Cys Gly Val Gly Ser Ser Cys
1 5

<210> 88

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 88

Cys Val Ser Gly Pro Arg Cys
1 5

<210> 89

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 89

Cys Gly Leu Ser Asp Ser Cys
1 5

<210> 90

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 90

Cys Gly Glu Gly His Pro Cys
1 5

<210> 91

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 91

Cys Tyr Thr Ala Asp Pro Cys
1 5

09765086-011701

<210> 92
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 92
Cys Glu Leu Ser Leu Ile Ser Lys Cys
1 5

<210> 93
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 93
Cys Pro Glu His Arg Ser Leu Val Cys
1 5

<210> 94
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 94
Cys Leu Val Val His Glu Ala Ala Cys
1 5

<210> 95
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 95
Cys Tyr Val Glu Leu His Cys
1 5

<210> 96
<211> 7
<212> PRT
<213> Artificial Sequence

09765086-01701

<220>
<223> synthetic peptide

<400> 96
Cys Trp Arg Lys Phe Tyr Cys
1 5

<210> 97
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 97
Cys Phe Trp Pro Asn Arg Cys
1 5

<210> 98
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 98
Cys Tyr Ser Tyr Phe Leu Ala Cys
1 5

<210> 99
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 99
Cys Pro Arg Gly Ser Arg Cys
1 5

<210> 100
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 100

09765086-011701

Cys Arg Leu Gly Ile Ala Cys
1 5

<210> 101
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 101
Cys Asp Asp Ser Trp Lys Cys Pro
1 5

<210> 102
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 102
Cys Ala Gln Leu Leu Gln Val Ser Cys
1 5

<210> 103
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 103
Cys Tyr Pro Ala Asp Pro Cys
1 5

<210> 104
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 104
Cys Lys Ala Leu Ser Gln Ala Cys
1 5

<210> 105
<211> 7

09765065-011701

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 105
Cys Thr Asp Tyr Val Arg Cys
1 5

<210> 106
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 106
Cys Gly Glu Thr Met Arg Cys
1 5

<210> 107
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 107
Gly Ile Cys Lys Asp Asp Trp Cys Gln
1 5

<210> 108
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 108
Thr Ser Cys Asp Pro Ser Leu Cys Glu
1 5

<210> 109
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

09765086-014701

<400> 109
Lys Gly Cys Gly Thr Arg Gln Cys Trp
1 5

<210> 110
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 110
Tyr Arg Cys Arg Glu Val Leu Cys Gln
1 5

<210> 111
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 111
Cys Trp Gly Thr Gly Leu Cys
1 5

<210> 112
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 112
Trp Ser Cys Ala Asp Arg Thr Cys Met
1 5

<210> 113
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 113
Ala Gly Cys Arg Leu Lys Ser Cys Ala
1 5

09765086-011701

<210> 114
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 114
Ser Arg Cys Lys Thr Gly Leu Cys Gln
1 5

<210> 115
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 115
Pro Ile Cys Glu Val Ser Arg Cys Trp
1 5

<210> 116
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 116
Trp Thr Cys Arg Ala Ser Trp Cys Ser
1 5

<210> 117
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 117
Gly Arg Cys Leu Leu Met Gln Cys Arg
1 5

<210> 118
<211> 9
<212> PRT
<213> Artificial Sequence

09765086-011701

<220>

<223> synthetic peptide

<400> 118

Thr Glu Cys Asp Met Ser Arg Cys Met
1 5

<210> 119

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 119

Ala Arg Cys Arg Val Asp Pro Cys Val
1 5

<210> 120

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 120

Cys Ile Glu Gly Val Leu Gly Gly Cys
1 5

<210> 121

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 121

Cys Ser Val Ala Asn Ser Cys
1 5

<210> 122

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 122

Cys Ser Ser Thr Met Arg Cys

09765086.01701

1

5

<210> 123
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 123
Ser Ile Asp Ser Thr Thr Phe
1 5

<210> 124
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 124
Gly Pro Ser Arg Val Gly Gly
1 5

<210> 125
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 125
Trp Trp Ser Gly Leu Glu Ala
1 5

<210> 126
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 126
Leu Gly Thr Asp Val Arg Gln
1 5

<210> 127
<211> 7
<212> PRT

09765086.011701

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 127

Leu Val Gly Val Arg Leu Leu
1 5

<210> 128

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 128

Gly Arg Pro Gly Asp Ile Trp
1 5

<210> 129

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 129

Thr Val Trp Asn Pro Val Gly
1 5

<210> 130

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 130

Gly Leu Leu Leu Val Val Pro
1 5

<210> 131

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

09765086-011701

<400> 131
Phe Ala Ala Thr Ser Ala Glu
1 5

<210> 132
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 132
Trp Cys Cys Arg Gln Phe Asn
1 5

<210> 133
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 133
Val Gly Phe Gly Lys Ala Leu
1 5

<210> 134
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 134
Asp Ser Ser Leu Arg Leu Pro
1 5

<210> 135
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 135
Lys Leu Trp Cys Ala Met Ser
1 5

<210> 136

09765086-011701

<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 136
Ser Leu Val Ser Phe Leu Gly
1 5

<210> 137
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 137
Gly Ser Phe Ala Phe Leu Val
1 5

<210> 138
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 138
Ile Ala Ser Val Arg Trp Ala
1 5

<210> 139
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 139
Thr Trp Gly His Leu Arg Ala
1 5

<210> 140
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

09765036.011701

<223> synthetic peptide

<400> 140

Gln Tyr Arg Glu Gly Leu Val

1

5

<210> 141

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 141

Gln Ser Ala Asp Arg Ser Val

1

5

<210> 142

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 142

Tyr Met Phe Trp Thr Ser Arg

1

5

<210> 143

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 143

Leu Val Arg Arg Trp Tyr Leu

1

5

<210> 144

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 144

Thr Ala Arg Gly Ser Ser Arg

1

5

09765086.01701

```
<210> 149
<211> 7
<212> PRT
<213> Artificial Sequence
```

<220>
<223> synthetic peptide

<400> 149
Val Arg Asn Ser Leu Arg Asn
1 5

<210> 150
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 150
Thr Asp Cys Thr Pro Ser Arg Cys Thr
1 5

<210> 151
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 151
Ser Trp Cys Gln Phe Glu Lys Cys Leu
1 5

<210> 152
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 152
Val Pro Cys Arg Phe Lys Gln Cys Trp
1 5

<210> 153
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 153

05765036-011701

Cys Thr Ala Met Arg Asn Thr Asp Cys
1 5

<210> 154
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 154
Cys Arg Glu Ser Leu Lys Asn Cys
1 5

<210> 155
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 155
Cys Met Glu Met Gly Val Lys Cys
1 5

<210> 156
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 156
Val Thr Cys Arg Ser Leu Met Cys Gln
1 5

<210> 157
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 157
Cys Asn Asn Val Gly Ser Tyr Cys
1 5

<210> 158
<211> 8

09765086-011701

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 158
Cys Gly Thr Arg Val Asp His Cys
1 5

<210> 159
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 159
Cys Ile Ser Leu Asp Arg Ser Cys
1 5

<210> 160
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 160
Cys Ala Met Val Ser Met Glu Asp
1 5

<210> 161
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 161
Cys Tyr Leu Gly Val Ser Asn Cys
1 5

<210> 162
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

09765086.011701

<400> 162
Cys Tyr Leu Val Asn Val Asp Cys
1 5

<210> 163
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 163
Cys Ile Arg Ser Ala Val Ser Cys
1 5

<210> 164
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 164
Leu Val Cys Leu Pro Pro Ser Cys Glu
1 5

<210> 165
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 165
Arg His Cys Phe Ser Gln Trp Cys Ser
1 5

<210> 166
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 166
Phe Tyr Cys Pro Gly Val Gly Cys Arg
1 5

09765086-011701

<210> 167
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 167
Ile Ser Cys Ala Val Asp Ala Cys Leu
1 5

<210> 168
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 168
Glu Ala Cys Glu Met Ala Gly Cys Leu
1 5

<210> 169
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 169
Pro Arg Cys Glu Ser Gln Leu Cys Pro
1 5

<210> 170
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 170
Arg Ser Cys Ile Lys His Gln Cys Pro
1 5

<210> 171
<211> 9
<212> PRT
<213> Artificial Sequence

09765086-011701

<220>

<223> synthetic peptide

<400> 171

Gln Trp Cys Ser Arg Arg Trp Cys Thr
1 5

<210> 172

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 172

Met Phe Cys Arg Met Arg Ser Cys Asp
1 5

<210> 173

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 173

Gly Ile Cys Lys Asp Leu Trp Cys Gln
1 5

<210> 174

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 174

Asn Ala Cys Glu Ser Ala Ile Cys Gly
1 5

<210> 175

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 175

Ala Pro Cys Gly Leu Leu Ala Cys Ile

09765086-011701

1

5

<210> 176

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 176

Asn Arg Cys Arg Gly Val Ser Cys Thr

1

5

<210> 177

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 177

Phe Pro Cys Glu Gly Lys Lys Cys Leu

1

5

<210> 178

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 178

Ala Asp Cys Arg Gln Lys Pro Cys Leu

1

5

<210> 179

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 179

Phe Gly Cys Val Met Ala Ser Cys Arg

1

5

<210> 180

<211> 9

<212> PRT

09765086-011701

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 180

Ala Gly Cys Ile Asn Gly Leu Cys Gly
1 5

<210> 181

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 181

Arg Ser Cys Ala Glu Pro Trp Cys Tyr
1 5

<210> 182

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 182

Asp Thr Cys Arg Ala Leu Arg Cys Asn
1 5

<210> 183

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 183

Gly Arg Cys Val Asp Gly Gly Cys Thr
1 5

<210> 184

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

09765086-011701

<400> 184
Tyr Arg Cys Ile Ala Arg Glu Cys Glu
1 5

<210> 185
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 185
Lys Arg Cys Ser Ser Ser Leu Cys Ala
1 5

<210> 186
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 186
Ile Cys Leu Leu Ala His Cys Ala
1 5

<210> 187
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 187
Gln Ala Cys Pro Met Leu Leu Cys Met
1 5

<210> 188
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 188
Leu Asp Cys Leu Ser Glu Leu Cys Ser
1 5

<210> 189

09765086.011701

<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 189
Ala Gly Cys Arg Val Glu Ser Cys
1 5

<210> 190
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 190
His Thr Cys Leu Val Ala Leu Cys Ala
1 5

<210> 191
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 191
Ile Tyr Cys Pro Gly Gln Glu Cys Glu
1 5

<210> 192
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 192
Arg Leu Cys Ser Leu Tyr Gly Cys Val
1 5

<210> 193
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

09765086-011701

<223> synthetic peptide

<400> 193

Arg Lys Cys Glu Val Pro Gly Cys Gln
1 5

<210> 194

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 194

Glu Asp Cys Thr Ser Arg Phe Cys Ser
1 5

<210> 195

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 195

Leu Glu Cys Val Val Asp Ser Cys Arg
1 5

<210> 196

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 196

Glu Ile Cys Val Asp Gly Leu Cys Val
1 5

<210> 197

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 197

Arg Trp Cys Arg Glu Lys Ser Cys Trp
1 5

09765086-011701

<210> 198
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 198
Phe Arg Cys Leu Glu Arg Val Cys Thr
1 5

<210> 199
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 199
Arg Pro Cys Gly Asp Gln Ala Cys Glu
1 5

<210> 200
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 200
Lys Leu Ala Lys Leu Ala Lys Lys Leu Ala Lys Leu Ala Lys
1 5 10

<210> 201
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 201
Lys Leu Ala Lys Lys Leu Ala Lys Leu Ala Lys Lys Leu Ala
1 5 10

<210> 202
<211> 14
<212> PRT
<213> Artificial Sequence

09765086-011701

<220>
<223> synthetic peptide

<400> 202
Lys Ala Ala Lys Lys Ala Ala Lys Ala Ala Lys Lys Ala Ala
1 5 10

<210> 203
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 203
Lys Leu Gly Lys Lys Leu Gly Lys Leu Gly Lys Lys Leu Gly Lys Leu
1 5 10 15
Gly Lys Lys Leu Gly
20

<210> 204
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 204
Asp Leu Ser Leu Ala Arg Leu Ala Thr Ala Arg Leu Ala Ile
1 5 10

<210> 205

<220>
<223> synthetic peptide

<400> 205
000

<210> 206

<220>
<223> synthetic peptide

<400> 206
000

<210> 207
<211> 7
<212> PRT

09765086.011701

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 207

Ser Met Ser Ile Ala Arg Leu

1 5

<210> 208

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 208

Cys Ala Arg Ala Cys

1 5

<210> 209

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 209

Glu Val Gln Ser Ala Lys Trp

1 5

<210> 210

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 210

Lys Arg Val Tyr Val Leu Gly

1 5

<210> 211

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

09765086.011701

<400> 211
Gly Arg Leu Ser Val Gln Val
1 5

<210> 212
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 212
Trp Lys Pro Ala Ser Leu Ser
1 5

<210> 213
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 213
Phe Ala Val Arg Val Val Gly
1 5

<210> 214
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 214
Leu Val Arg Pro Leu Glu Gly
1 5

<210> 215
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 215
Gly Phe Tyr Arg Met Leu Gly
1 5

<210> 216

TO/TTD-98059/60

<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 216
Glu Gly Arg Pro Met Val Tyr
1 5

<210> 217
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 217
Gly Ser Arg Ser Leu Gly Ala
1 5

<210> 218
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 218
Arg Val Trp Gln Gly Asp Val
1 5

<210> 219
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 219
Gly Asp Glu Leu Leu Ala
1 5

<210> 220
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

09765086-014701

<223> synthetic peptide

<400> 220

Phe Val Trp Leu Val Gly Ser

1

5

<210> 221

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 221

Gly Ser Glu Pro Met Phe Arg

1

5

<210> 222

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 222

Val Ser Phe Leu Glu Tyr Arg

1

5

<210> 223

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 223

Trp His Gln Pro Leu

1

5

<210> 224

<211> 7

<212> PRT

<213> eArtificial Sequence

<220>

<223> synthetic peptide

<400> 224

Arg Gly Arg Trp Leu Ala Leu

1

5

09765086.011701

<210> 225
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 225
Gln Val Glu Glu Phe Pro Cys
1 5

<210> 226
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 226
Leu Trp Leu Ser Gly Asn Trp
1 5

<210> 227
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 227
Gly Pro Met Leu Ser Val Met
1 5

<210> 228
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 228
Trp Thr Phe Leu Glu Arg Leu
1 5

<210> 229
<211> 7
<212> PRT
<213> Artificial Sequence

09765036.011701

<220>
<223> synthetic peptide

<400> 229
Val Leu Pro Gly Gly Gln Trp
1 5

<210> 230
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 230
Arg Glu Val Lys Glu Ser
1 5

<210> 231
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 231
Arg Thr Pro Ala Ala Val Met
1 5

<210> 232
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 232
Gly Glu Trp Leu Gly Glu Cys
1 5

<210> 233
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 233

09765086 011701

Pro Asn Pro Leu Met Pro Leu
1 5

<210> 234

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 234

Ser Leu Trp Tyr Leu Gly Ala
1 5

<210> 235

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 235

Tyr Val Gly Gly Trp Glu Leu
1 5

05755055-014704